	Application No.	Applicant(s)
Notice of Allowability	09/954,636	CROFT, JAMES J.
	Examiner	Art Unit
	Brian Ensey	2615
	Drian Crisey	2015
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment dated 3/15/06.</u>		
2. The allowed claim(s) is/are <u>1-12, 14-20,25-32 renumbered 1-27.</u>		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 D Nation of left mod D	-AA AliAi (DTO 450)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		atent Application (PTO-152)
	6. ☐ Interview Summary Paper No./Mail Dat	e
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. X Examiner's Amenda	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
•	9.	

Application/Control Number: 09/954,636 Page 2

Art Unit: 2615

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Vaughn North on April 3, 2006.

The application has been amended as follows:

In the claims:

In claim 8, line 5, "[[n=3]]" has been deleted.

In claim 14, line 1, "13" has been deleted and -- 10-- has been added.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a bandpass woofer loudspeaker enclosure with multiple acoustic filters.

Independent claim 1 identifies the uniquely distinct feature of a third acoustic radiator designed to realize a predetermined acoustic mass and intercoupling said first and second subchambers to form a third Helmholtz-reflex tuning at a frequency lower than that of said first and second passive radiators. Independent claim 6 identifies the uniquely distinct feature of a third acoustic radiator designed to realize a predetermined acoustic mass and intercoupling said first and second subchambers to form a Helmholtz-reflex tuning at a specific frequency in the passband of said loudspeaker. Independent claim 8 identifies the uniquely distinct feature of at least one primary passive acoustic radiator designed to realize a predetermined acoustic mass and

Art Unit: 2615

intercoupling said first (n1) and second (n2) subchambers to form a Helmholtz-reflex acoustic filter. Independent claims 10 and 15 identify the uniquely distinct feature of a third acoustic radiator designed to realize a predetermined acoustic mass and intercoupling said first and second subchambers. The closest prior art Gawronski et al. (US 5714721) teaches a loudspeaker enclosure with acoustic masses and acoustic compliances coupling multiple compartments but fails to teach coupling the first and second subchamber(compliance) with a passive acoustic radiator; Shulte (US 5659157) teaches a 7th order acoustic speaker enclosure with acoustic masses and acoustic compliances coupling multiple compartments but fails to teach coupling the first and second subchamber(compliance) with a passive acoustic radiator; and Nakano (US 5629502) teaches at least a third order acoustic speaker enclosure with parallel acoustic radiators but fails to teach an enclosure with greater than 2 subchambers. The prior art fails to anticipate or render the independent claims obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2615.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Ensey whose telephone number is 571-272-7496. The examiner can normally be reached on Monday - Friday 6:30 AM - 3:00 PM.

Application/Control Number: 09/954,636

Art Unit: 2615

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sinh Tran can be reached on 571-272-7564. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, Va. 22313-1450

Or faxed to:

(571) 273-8300, for formal communications intended for entry and for informal or draft communications, please label "PROPOSED" or "DRAFT".

Hand-delivered responses should be brought to:

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Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BKE

April 3, 2006

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SUPCOME PATENT EXAMINER

Page 4